| Index of Claims |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|
|                 |  |  |  |  |  |  |  |  |  |  |  |

| Application No. | Applicant(s)       |
|-----------------|--------------------|
| 09/810,339      | YAMAGUCHI, HIROSHI |
| Examiner        | Art Unit           |
| Tuan V Ho       | 2615               |

| √ | Rejected | - | (Through numeral)<br>Cancelled |
|---|----------|---|--------------------------------|
| = | Allowed  | ÷ | Restricted                     |

| N | Non-Elected  | Α | Appeal   |
|---|--------------|---|----------|
| ı | Interference | 0 | Objected |

| CI       | Claim Date |                 |               |        |                  |          |              | Cla   | aim Date   |          |                 |         |          |          | Cla      | aim      | Date    |        |       |            |           |          |              |           |          |          |                 |          |          |
|----------|------------|-----------------|---------------|--------|------------------|----------|--------------|-------|--|----------|-----------------|---------|----------|----------|----------|----------|---------|--------|-------|------------|-----------|----------|--------------|-----------|----------|----------|-----------------|----------|----------|
| Final    | riginal    | 3<br>1          |               |        |                  |          |              |       | Final  | Original |                 |         |          |          |          |          |         |        | Final | Original   |           |          |              |           |          |          |                 |          |          |
|          | 1          | V               | +             | 1      | İ. T             |          | 1            |       |  | 51       |                 | T       | 1        |          | 1        | T        | _       |        |       | 101        |           | $\neg$   |              | $\exists$ |          |          | 寸               |          | $\neg$   |
|          | 2          | u               | $\top$        | 1      | M                |          |              |       |  | 52       |                 | $\top$  |          | П        |          | T        |         |        |       | 102        |           | $\neg$   | ╗            | コ         | $\neg$   |          | ヿ               | 7        | ヿ        |
|          | 3          | U               | $\top \top$   |        |                  |          |              | 1     |  | 53       |                 |         |          |          |          | T        |         |        |       | 103        |           |          |              |           |          |          |                 | T        | ╗        |
|          | f          |                 |               |        |                  |          |              |       |  | 54       |                 |         | I        |          |          |          |         |        |       | 104        |           |          |              |           |          |          |                 |          |          |
|          | 5          | 7               |               |        |                  |          |              |       |  | 55       |                 |         |          |          |          |          |         |        |       | 105        |           |          |              |           |          |          |                 |          |          |
|          | 6          | V               | $\perp \perp$ |        |                  |          | Ш            |       |  | 56       | $\sqcup$        | $\perp$ |          |          |          | $\perp$  |         |        |       | 106        |           |          |              |           |          |          | $\perp$         |          | _        |
|          | 7          | 0               | $\bot\bot$    | 1      |                  |          | Ш            | . :   |  | 57       | Ц.              | _       | _        | Ш        |          | $\perp$  | 1       |        |       | 107        |           | $\perp$  |              |           | _        |          | $\perp$         | _        | _        |
| ļ        | 8          | 4               | ++            | 4      | 1                | _        | ш            |       |  | 58       |                 | $\perp$ | -        | $\vdash$ |          | _        |         |        |       | 108        | _         |          | _            | _         | _        |          | 4               |          | 4        |
|          | 9          | 4               | ++            | 4      | H                | $\dashv$ | 1            |       |  | 59       | $\vdash$        | - -     | -        | $\vdash$ | 4        | 4        |         |        |       | 109        | -         | 4        | -            |           |          |          | -               |          |          |
| <u> </u> | 10         |                 | +             | -      | $\vdash$         |          | $\vdash$     |       |  | 60       | -               | +-      | 4        |          | $\dashv$ | -        | +       |        |       | 110        |           | -        | -            | -         | _        | _        | $\dashv$        | -        |          |
| <u> </u> | 11         | #               | +             |        | $\vdash$         | _        | $\vdash$     |       |  | 61       | -               |         | +-       | $\vdash$ | -        | +        |         | ::     |       | 111        | -         | -        |              | -         | $\dashv$ | -        | $\dashv$        |          |          |
|          | 12         | ++              | ++            | +      | $\vdash$         | +        | +            |       |  | 62<br>63 | -               | +-      | +        | -        | +        | +        |         |        |       | 112<br>113 | -         |          | $\dashv$     | $\dashv$  |          | $\dashv$ | $\dashv$        | -        | $\dashv$ |
| <u> </u> | 14         | H +             | ++            | +      | $\vdash$         | +        | $\vdash$     |       | -  | 64       | -               | +       | +        | ┝        | $\dashv$ | +        | +       |        |       | 114        | $\vdash$  | $\dashv$ | -            | -         | $\dashv$ |          | -               | -        | $\dashv$ |
|          | 15         | ╫┼              | ++            | +      | ┤┤               | $\dashv$ | $\vdash$     |       | -  | 65       | $\vdash$        | +       | +        | $\vdash$ | $\dashv$ | +        | +-      |        |       | 115        | $\vdash$  | $\dashv$ | -            | -         |          |          | -+              | -        | $\dashv$ |
| <u> </u> | 16         | ╫┼              | + +-          |        | $\vdash$         |          | +-           |       |  | 66       | $\vdash$        | +       | +        | Н        | +        | +        | +-      |        |       | 116        | Н         | -        |              |           | -        | -        | -+              | $\dashv$ | $\dashv$ |
| $\vdash$ | 17         | H +             | +             | +      | ╁                | +        | +            |       |  | 67       |                 | +       | +        | $\vdash$ | $\dashv$ | +        | +       |        |       | 117        |           | $\dashv$ | -+           | ᅱ         | _        | -        | ┪               | ᅱ        | ᅱ        |
| <u> </u> | 18         | 18              | ++            | -      | 1                |          | +            |       |  | 68       | $\vdash$        | +       | +        | H        | $\dashv$ | $\dashv$ | +       |        |       | 118        | $\dashv$  | -+       | <del>-</del> | ᅱ         | -        | $\neg$   | 十               | ᅱ        | $\dashv$ |
| -        | 19         | 18              | ++            | $\top$ | 1 1              | +        | +            |       |  | 69       |                 | +-      | +-       | Н        | +        | $\dashv$ | +       |        |       | 119        |           |          | _            | $\neg$    |          |          | 十               | $\dashv$ | $\dashv$ |
| -        | 20         |                 | ++            | +      | $\Box$           | $\dashv$ | H            |       |  | 70       | -               | +-      | +        |          | $\dashv$ | $\dashv$ | +       |        |       | 120        |           |          |              | $\neg$    |          |          | -               | ᅦ        | ᅥ        |
|          | 21         |                 | ++            | +      | H                | $\top$   | $\sqcap$     |       |  | 71       |                 | ╅       | $\top$   |          | $\neg$   | $\top$   | +       |        |       | 121        |           |          | _            |           |          |          | 寸               | 7        | ヿ        |
| -        | 22         |                 | 1             | 1      | $\Box$           |          | T            |       |  | 72       |                 | $\top$  |          |          | $\neg$   | $\neg$   | $\top$  |        |       | 122        |           |          | $\neg$       |           |          |          | 寸               | $\neg$   | ヿ        |
|          | 23         |                 | 11            |        | П                | $\neg$   | $\Box$       |       |  | 73       |                 | 1       |          |          |          |          |         |        |       | 123        |           |          |              |           |          |          |                 |          | ヿ        |
|          | 24         |                 |               |        |                  |          | П            |       |  | 74       |                 | 1       |          |          |          | T        | $\top$  |        |       | 124        |           |          | $\neg$       |           |          |          | 1               | $\neg$   | ヿ        |
|          | 25         |                 |               |        |                  |          |              |       |  | 75       |                 |         |          |          |          |          |         |        |       | 125        |           |          |              |           |          |          |                 |          |          |
|          | 26         |                 |               |        |                  |          |              |       |  | 76       |                 | $\perp$ |          |          |          |          |         |        |       | 126        |           |          |              |           |          |          |                 |          |          |
|          | 27         |                 |               |        |                  |          |              |       |  | 77       |                 |         |          |          |          |          |         |        |       | 127        |           |          |              |           |          |          |                 |          |          |
|          | 28         |                 |               |        |                  |          |              |       |  | 78       | $\Box$          |         |          | Ш        |          | $\perp$  |         |        |       | 128        | Ш         |          | _            |           |          |          | _               | _        | ᆜ        |
|          | 29         |                 | $\perp \perp$ | ᆜ_     | $\sqcup$         |          | Ш            |       |  | 79       |                 | _       |          | Ш        |          |          |         |        |       | 129        | Ш         |          | _            | _         |          |          | $\perp$         | _        | _        |
|          | 30         | $\sqcup \bot$   | 11            | _      | $\sqcup$         |          | $\sqcup$     |       |  | 80       | Ш               | $\perp$ | ļ        | Ш        | _        | _        |         | :::::: |       | 130        | Ш         | _        | _            |           | _        |          | _               | 4        | _        |
| <u> </u> | 31         | oxdot           | $\bot\bot$    | $\bot$ |                  |          | $\sqcup$     |       |  | 81       |                 | $\perp$ | <u> </u> | Ш        | _        | 4        |         | :::    |       | 131        | Ш         |          | $\dashv$     | _         | $\Box$   | $\Box$   | 4               |          | _        |
|          | 32         | <u> </u>        | 4-4           | —      | $\sqcup$         | _        | $\sqcup$     |       |  | 82       | $\vdash$        | -       | 1        | Н        | -        |          | +       |        |       | 132        | $\square$ |          |              | -         | $\dashv$ | -        | $\dashv$        | $\dashv$ | $\dashv$ |
|          | 33         | -               |               | +      | $\vdash$         | _        | +            |       |  | 83       | $\vdash \vdash$ | +       | +-       | Н        | +        | +        | -       |        |       | 133        | Н         |          | $\dashv$     | _         |          |          | +               | -        | ᅱ        |
| <u> </u> | 34<br>35   | $\vdash\vdash$  | ++            | +      | $\vdash$         | +        | $\dashv$     |       | <b>-</b>   | 84<br>85 | $\vdash \vdash$ | +-      | +-       | Н        | +        | +        |         |        |       | 134<br>135 | Н         | $\dashv$ | $\dashv$     | $\dashv$  | $\dashv$ |          | $\dashv$        | $\dashv$ | $\dashv$ |
| $\vdash$ | 36         | $\vdash \vdash$ | ++            | +      | $\vdash$         | +        | +-           |       |  | 86       | $\vdash$        | +       | +        | Н        | +        | +        | +-      |        |       | 136        | $\vdash$  | $\dashv$ | $\dashv$     | $\dashv$  | $\dashv$ |          | $\dashv$        | $\dashv$ | $\dashv$ |
| $\vdash$ | 37         | $\vdash$        | ++            | +      | $\vdash$         |          | $\vdash$     |       | <u> </u>   | 87       | $\vdash \vdash$ | +       | +        | $\vdash$ | +        | +        | +       |        |       | 137        | $\vdash$  | $\dashv$ | -            | $\dashv$  | $\dashv$ | $\vdash$ | $\dashv$        | $\dashv$ | $\dashv$ |
| -        | 38         | $\vdash$        | ++            | +-     | $\vdash$         | $\dashv$ | +            |       |  | 88       | $\vdash$        | +       | +        | $\vdash$ | -        | $\dashv$ | +       |        | _     | 138        | Н         | -        | $\dashv$     |           | $\vdash$ |          | $\dashv$        | $\dashv$ | $\dashv$ |
| $\vdash$ | 39         | $\vdash$        | ++            | +      | $\vdash$         | +        | + -          |       | $\vdash$   | 89       | $\vdash$        | +       | +        | $\vdash$ | -+       | +        | +       |        |       | 139        |           |          | $\dashv$     |           | $\vdash$ |          | $\dashv$        | ᅥ        | $\dashv$ |
| <u> </u> | 40         |                 | ++            | +-     | $\vdash$         | $\dashv$ | +            |       | <del>                                     </del> | 90       | $\vdash$        | +       | +        | Н        | $\dashv$ | 十        | +       |        |       | 140        | $\vdash$  | -        |              | -         | $\dashv$ | $\vdash$ | $\dashv$        | 1        | ᅱ        |
|          | 41         |                 | 11            | +      | $\vdash$         | $\dashv$ | H            |       |  | 91       |                 | $\top$  | T        | Н        | +        | $\top$   | $\top$  |        |       | 141        | Н         | $\Box$   | $\dashv$     |           | $\vdash$ | $\vdash$ | $\dashv$        | $\dashv$ | ᅱ        |
|          | 42         | $\vdash$        | 11            | +      | H                | $\top$   | H            |       |  | 92       |                 | $\top$  | †        | Н        | $\dashv$ | $\top$   | $\top$  | .::::  |       | 142        | Н         | $\dashv$ | $\dashv$     | $\neg$    |          | $\dashv$ | $\dashv$        |          | ᅱ        |
|          | 43         |                 | 11            |        | H                | 十        |              |       |  | 93       |                 | T       | 1        | П        | 1        |          | 1       |        |       | 143        | П         |          | $\dashv$     |           |          |          | 寸               |          | ᅱ        |
|          | 44         | $\Box$          | 7 1           | 1      | П                |          | П            | -:''' |  | 94       |                 | T       | $\top$   | П        | $\dashv$ |          |         |        |       | 144        |           |          | _            |           |          |          | $\lnot \dagger$ |          | ヿ        |
|          | 45         | $\sqcap$        | 77            |        | П                | $\dashv$ | П            |       |  | 95       |                 | T       | $\top$   | П        | $\neg$   |          |         |        |       | 145        | П         |          |              |           |          |          | 寸               |          |          |
|          | 46         |                 |               |        | $\Box$           |          |              |       |  | 96       |                 |         | Ι        |          |          |          |         |        |       | 146        |           |          |              |           |          |          |                 |          |          |
|          | 47         |                 |               |        | $\Box^{\dagger}$ |          |              |       |  | 97       |                 |         |          |          |          |          | $\perp$ |        |       | 147        |           |          | _]           |           |          |          |                 |          |          |
|          | 48         |                 |               |        | П                |          |              | <br>  |  | 98       |                 |         |          |          |          |          |         |        |       | 148        |           |          |              |           |          |          |                 |          |          |
|          | 49         |                 |               |        | П                |          | $oxed{\Box}$ |       |  | 99       | Щ               | _[_     | $\perp$  | П        | $\bot$   |          |         |        |       | 149        |           |          |              |           |          |          | $\bot$          |          |          |
|          | 50         |                 |               |        | Ш                |          | Ш            | :: .  | L  | 100      |                 |         |          | Ш        | $\perp$  |          |         |        |       | 150        |           |          |              |           |          |          |                 |          |          |